

## SECTION I—CLAIMS

### **Amendment to the Claims:**

This listing of the claims will replace all prior versions and listings of claims in the application. Claims 1-4 and 6-37 are amended herein. No claims are canceled. No new claims are added. Claims 1-37 remain pending in the application.

### **Listing of Claims:**

1. (Currently amended) A computer-implemented method comprising:  
~~abstracting~~ defining a virtual interface that selectively exposes methods and parameters of a  
specific Web service implementation to a virtual interface, wherein the methods and  
parameters are modifiable at the virtual interface;  
~~to provide an interface for the specific Web service implementation that provides multiple views~~  
~~for the Web service;~~  
~~generating~~ creating a plurality of Web service definitions, each generically defining features and  
properties of the Web service to specifying one or more behaviors of the defined virtual  
interface[[,]] by mapping the generically defined features and properties available at the  
virtual interface mapped to runtime technical features of [[in]] the specific Web service  
implementation; and  
generating multiple views of the Web service implementation based on the Web service  
definitions, wherein each of the multiple views is publishable as a separate Web service;  
and  
archiving ~~providing a Web service archive including~~ the virtual interface and the Web service

definitions in a Web service archive from which the virtual interface and the Web service definitions are retrievable.

2. (Currently amended) The method of claim 1, wherein ~~defining~~ abstracting methods and parameters of the Web service implementation to the virtual interface comprises:  
indicating an operation of the Web service implementation to be exposed by the virtual interface.
3. (Currently amended) The method of claim 2, wherein ~~defining~~ abstracting methods and parameters of the Web service implementation to the virtual interface further comprises:  
providing a name for the operation to be exposed by the virtual interface.
4. (Currently amended) The method of claim 2, wherein the operation includes a parameter to  
provide a value for the operation; and~~[[:]]~~ wherein  
~~defining~~ abstracting methods and parameters of the Web service implementation to the virtual  
interface further comprises~~[[:]]~~ altering a characteristic of the parameter.
5. (Original) The method of claim 4, wherein altering the characteristic of the parameter includes  
at least one of:  
providing a name for the parameter;  
specifying a data type for the parameter; and  
providing a default value for the parameter.
6. (Currently amended) The method of claim 1, further comprising:  
abstracting the methods and parameters of the Web service implementation to ~~defining~~ a second  
virtual interface, ~~to provide a second interface for the Web service implementation.~~
7. (Currently amended) The method of claim 1, wherein generating each ~~creating the~~ Web  
service definition ~~to specify a behavior of the defined virtual interface~~ comprises:  
providing a name for the Web service definition.

8. (Currently amended) The method of claim 7, wherein generating each ~~creating the~~ Web service definition ~~to specify a behavior of the defined virtual interface~~ further comprises: specifying an authentication level for the Web service definition.
9. (Currently amended) The method of claim 7, wherein generating each ~~creating the~~ Web service definition ~~to specify a behavior of the defined virtual interface~~ further comprises: specifying a transport guarantee type for the Web service definition.
10. (Currently amended) The method of claim 7, wherein generating each ~~creating the~~ Web service definition ~~to specify a behavior of the defined virtual interface~~ further comprises: indicating an authorization level for the Web service definition.
11. (Currently amended) The method of claim 1, further comprising: creating a Web service deployment descriptor to describe a configuration of one of the plurality of Web service definitions.
12. (Currently amended) The method of claim 11, wherein archiving the virtual interface and the Web service definitions in the Web service archive comprises: packing providing a Web service archive including the virtual interface[[,]] and the Web service definitions[[,]] in a deployable container; and wherein the method further comprises packing and the Web service deployment descriptor in the deployable container.
13. (Currently amended) The method of claim 11, wherein creating the Web service deployment descriptor ~~to describe a configuration of the Web service~~ further comprises: specifying a name for the configuration of the Web service definition described, ~~at least in part, by the Web service deployment descriptor.~~
14. (Currently amended) The method of claim 11, wherein creating the Web service deployment

descriptor further comprises:

specifying a transport binding for the configuration of the Web service definition described.

15. (Currently amended) The method of claim 11, wherein creating the Web service deployment

descriptor further comprises:

specifying an authentication protocol implementation for the configuration of the Web service definition described.

16. (Currently amended) The method of claim 11, wherein creating the Web service deployment

descriptor further comprises:

providing an address for the configuration of the Web service definition described.

17. (Currently amended) An application server comprising:

a network interface to connect to a network node; and

a processor and logic executable thereon to

abstract ~~define a virtual interface that selectively exposes~~ methods and parameters of a

~~specific~~ Web service implementation to a virtual interface;

~~to provide an interface for the specific Web service implementation that provides~~

~~multiple views for the Web service;~~

generate ~~create~~ a plurality of Web service definitions, each ~~generically defining features~~

~~and properties of the Web service~~ to specify one or more behaviors of the

~~defined~~ virtual interface by mapping the generically defined features and

properties ~~mapped~~ available at the virtual interface to runtime ~~technical~~ features

of ~~the~~ specific Web service implementation; ~~and~~

generate multiple views of the Web service implementation based on the Web service

definitions, wherein each of the multiple views is publishable as a separate Web

service; and

~~archive provide a Web service archive including~~ the virtual interface and the Web service definitions in a Web service archive from which the virtual interface and the Web service definitions are retrievable by [[to]] the network node via ~~with~~ the network interface.

18. (Currently amended) The application server of claim 17, wherein the processor and logic executable thereon to ~~define~~ abstract the methods and parameters of the Web service implementation to the virtual interface comprises:

~~the~~ [[a]] processor and logic executable thereon to indicate an operation of the Web service implementation to be exposed by the virtual interface.

19. (Currently amended) The application server of claim 18, wherein the processor and logic executable thereon to ~~define~~ abstract the methods and parameters of the Web service implementation to the virtual interface further comprises:

~~the~~ [[a]] processor and logic executable thereon to provide a name for the operation to be exposed by the virtual interface.

20. (Currently amended) The application server of claim 17, wherein the processor and logic executable thereon to further; ~~comprises~~:

~~a processor and logic executable thereon to define~~ abstract the methods and parameters of the Web service implementation to a second virtual interface; ~~to provide a second interface for the Web service implementation.~~

21. (Currently amended) The application server of claim 17, wherein the processor and logic executable thereon to ~~create~~ generate the plurality of the Web service definitions comprises:

the [[a]] processor and logic executable thereon to provide a name for the Web service definition.

22. (Currently amended) The application server of claim 21, wherein the processor and logic executable thereon to ~~create~~ generate the plurality of the Web service definitions further comprises:

the [[a]] processor and logic executable thereon to specify an authentication level for the Web service definition.

23. (Currently amended) The application server of claim 21, wherein the processor and logic executable thereon to ~~create~~ generate the plurality of the Web service definitions further comprises:

the [[a]] processor and logic executable thereon to specify a transport guarantee type for the Web service definition.

24. (Currently amended) The application server of claim 17, wherein the processor and logic executable thereon to further; ~~comprises~~:

~~a processor and logic executable thereon to create~~ generate a Web service deployment descriptor to describe a configuration of one of the Web service definitions.

25. (Currently amended) The application server of claim 24, wherein the processor and logic executable thereon to ~~create~~ generate the Web service deployment descriptor comprises:

the [[a]] processor and logic executable thereon to specify a name for the configuration of the Web service definition.

26. (Currently amended) The application server of claim 25, wherein the processor and logic executable thereon to ~~create~~ generate the Web service deployment descriptor further comprises:

the [[a]] processor and logic executable thereon to specify a transport binding for the

~~configuration, of the Web service definition.~~

27. (Currently amended) The application server of claim 25, wherein the processor and logic executable thereon to ~~create~~ generate the Web service deployment descriptor further comprises:

the [[a]] processor and logic executable thereon to specify an authentication protocol implementation for the configuration, ~~of the Web service definition.~~

28. (Currently amended) A system comprising:

~~a means for defining a virtual interface that selectively exposes methods and parameters of a specific Web service implementation to provide an interface for the specific Web service implementation that provides multiple views for the Web service;~~

~~a means for creating a Web service definition generically defining features and properties of the Web service to specify a behavior of the defined virtual interface, the generically defined features and properties mapped to runtime technical features in the specific Web service implementation; and~~

~~a means for providing a Web service archive including the virtual interface and the Web service definition.~~

means for abstracting methods and parameters of a Web service implementation to a virtual interface, wherein the methods and parameters are modifiable at the virtual interface;

means for generating a plurality of Web service definitions, each specifying one or more behaviors of the virtual interface by mapping features and properties available at the virtual interface to runtime features of the Web service implementation;

means for generating multiple views of the Web service implementation based on the Web service definitions; and

means for archiving the virtual interface and the Web service definitions in a Web service archive from which the virtual interface and the Web service definitions are retrievable.

29. (Currently amended) The system of claim 28, wherein ~~the means for defining abstracting methods and parameters of the Web service implementation to~~ a virtual interface comprises:

[[a]] means for indicating an operation of the Web service implementation to be exposed by the virtual interface.

30. (Currently amended) The system of claim 28, wherein ~~the means for creating a~~ generating the plurality of Web service definitions comprises:

[[a]] means for specifying an authentication level for each of the Web service definitions.

31. (Currently amended) The system of claim 28, further comprising:

[[a]] means for creating a Web service deployment descriptor to describe a configuration of one of the Web service definitions.

32. (Currently amended) The system of claim 31, wherein ~~the means for creating the Web service deployment descriptor to describe the configuration of the Web service definition~~ comprises:

[[a]] means for specifying a transport binding for the configuration of the Web service definition described.

33. (Currently amended) An article of manufacture having instructions stored thereon comprising: an electronically accessible medium providing instructions that, when executed by a processor, an apparatus, cause the processor apparatus to perform operations comprising: define a virtual interface that selectively exposes methods and parameters of a specific Web service implementation to provide an interface for the specific Web service



~~implementation that provides multiple views for the Web service;~~  
~~create a Web service definition generically defining features and properties of the Web service to~~  
~~specify a behavior of the defined virtual interface, the generically defined features and~~  
~~properties mapped to runtime technical features in the specific Web service~~  
~~implementation; and~~  
~~provide a Web service archive including the virtual interface and the Web service definition.~~  
abstracting methods and parameters of a Web service implementation to a virtual interface;  
generating a plurality of Web service definitions, each specifying one or more behaviors of the  
virtual interface by mapping features and properties available at the virtual interface to  
runtime features of the Web service implementation;  
generating multiple views of the Web service implementation based on the Web service  
definitions; and  
archiving the virtual interface and the Web service definitions in a Web service archive.

34. (Currently amended) The article of manufacture of claim 33, wherein ~~the instructions that,~~  
~~when executed by the apparatus, cause the apparatus to define~~ abstracting the methods and  
parameters of the Web service implementation to the virtual interface comprises:  
~~include instructions that the cause the apparatus to~~  
~~indicate~~ indicating an operation of the Web service implementation to be exposed by the virtual  
interface.

35. (Currently amended) The article of manufacture of claim 33, wherein the instructions cause  
the processor to perform operations further comprising:  
~~that, when executed by the apparatus, cause the apparatus to create the Web service definition~~  
~~include instructions that the cause the apparatus to~~

specifying an authentication level for one of ~~[[of]]~~ the Web service definitions.

36. (Currently amended) The article of manufacture of claim 33, wherein the instructions cause

the processor to perform operations further comprising:

~~electronically accessible medium providing instructions that, when executed by an apparatus,~~

~~further cause the apparatus to~~

~~create~~ creating a Web service deployment descriptor to describe a configuration of one of the

Web service definitions.

37. (Currently amended) The article of manufacture of claim 36, wherein ~~the instructions that,~~

~~when executed by the apparatus, cause the apparatus to create~~ creating the Web service

deployment descriptor comprises: ~~include instructions that the cause the apparatus to~~

specifying a transport binding for the Web service definition.